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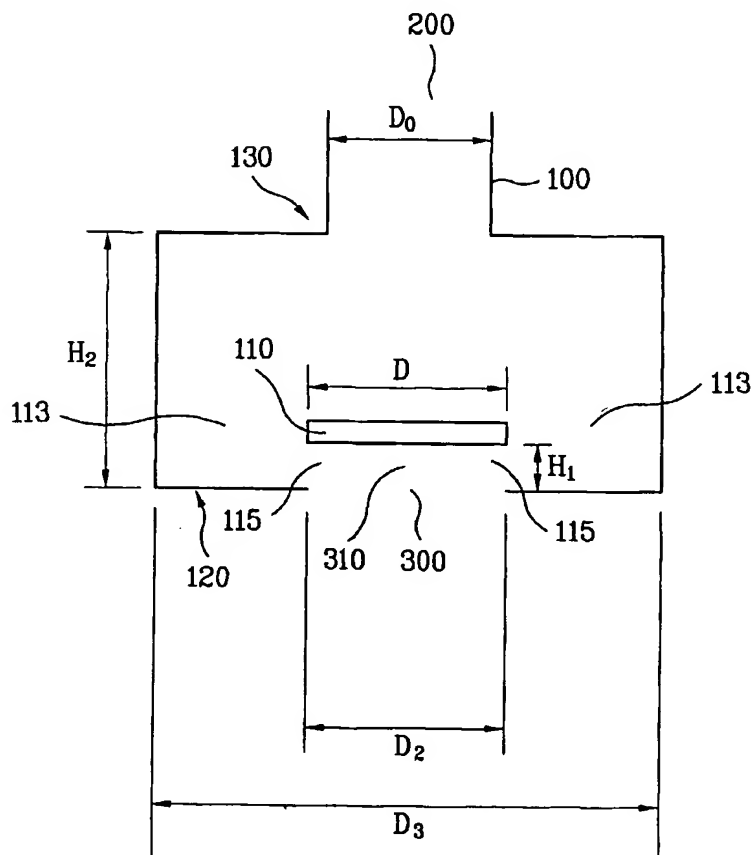
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[Continued on next page]

(54) Title: FLOW SPREADING MECHANISM



(57) Abstract: The present invention relates to a flow spreading mechanism, in particular a flow spreading mechanism used with refrigerators or air conditioners to enhance spreading of cool or warm air. To achieve the above-mentioned object, this invention comprises at least one inlet (200) through which fluid flow comes in; a flow separator means (110) dividing the flow coming through the at least one inlet (200) into at least two separate flows; and an outlet (300) through which at least two of the at least two flows having been divided into separate flows by the flow separator means go out after they meet again, thereby forming complex vortices near the outlet, which make the flow going out of the outlet swing. Flow spreading mechanism of the present invention provides a better uniformity of temperature distribution for refrigerators or air conditioners, compared with the simple-ducted outlet of the prior art.



TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: F24F, B01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EpoDoc, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2043074 A (MAN) 12 February 1971 (12.02.1971) <i>the whole document.</i>	1 - 21
X	FR 2784313 A (BRUNON) 14 April 2000 (14.04.2000) <i>the whole document.</i>	1 - 21
X	US 6135629 A (DOHMANN) 24 October 2000 (24.10.2000) <i>the whole document.</i>	1 - 21
X	US 2001/0053108 A (JAHN) 20 December 2001 (20.12.2001) <i>the whole document.</i>	1 - 21

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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- „&“ document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members .

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